# Kang Liang

# Chinese nationality, born 02/1997

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I am a PhD candidate at CIRED laboratory, Ecole des Ponts ParisTech(ENPC)

Expected date of graduation: 06/2025

# JOB MARKET CANDIDATE

**Field:** Transport and urban planning

**Themes:** Geography, Transport and Mobility, Statistics, Carbon Mitigation

**Methods:** spatial analysis, probabilistic models, econometric analysis, 4-step transport models, agent-based models.

# Education

11/2021-now **Ecole des Ponts ParisTech, France**

PhD, Transport and urban planning Supervisor: Fabien Leurent

09/2018-08/2020 **Ecole des Ponts ParisTech, France**

Master, Urban planning

09/2014-06/ 2018 **Wuhan University, China**

Bachelor of Science, Geographical science

# Scientific projects

* Liang, K., Leurent, F., & Le Boennec, R. (2024). Is commuting a daily behaviour? Rhythmic evidence in France, as of 2019. *Transportation*, 1-43.
* Leurent, F., & Liang, K. (2022). How Do Individual Walk Lengths and Speeds, Together with Alighting Flow, Determine the Platform Egress Times of Train Users?. Journal of Advanced Transportation, 2022.
* Liang, K., & Leurent, F. (2025). Commuting Patterns and Emissions in Paris-Île-de-France: A Comparative Study of Interregional and Intraregional Travel. Oral presentation at TRB and Submission at TRR.
* Liang, K., & Leurent, F. (2025). Spatial Clustering of Urban Areas in France: A Spectral Analysis of Commuting Patterns. Submission by July 2025.
* Liang, K., Deep Learning-Based Identification of Urban Villages in Optical Remote Sensing Images[C]. //Proceedings of the 2018 Academic Annual Conference of the Chinese Society for Geodesy, Photogrammetry, and Cartography. 2018:83-89.(梁康. 基于深度学习的光学遥感影像城中村识别[C]. //中国测绘地理信息学会2018学术年会论文集. 2018:83-89.)

# Professional experience

***Research assistant:***

* + 10/2020-02/2021 GRETTIA laboratory, Université Gustave Eiffel
  + 03/2021-10/2021 CIRED laboratory, Ecole des Ponts ParisTech

***Teaching in French:***

* + 10/2023-12/2024 "Case Study of Mobility Modelling" module at CentraleSupélec, France
  + 09/2020- 02/2021 “TransitLab” student group project at ENPC, France

***Internship:***

* + 06/2019- 08/2019, LVMT laboratory, ENPC. Internship report on “C++ programming of a route choice model on a dynamic network”
  + 02/2020 – 07/2020, SNCF Transilien, Saint-Denis, Paris Region. Internship report on “Improvement of SNCF's ARES model: a calibration of the model on the distribution of passengers between origins-destinations where several links are available.”

# Main Communications in English and French

* **June 2021**, 3rd ***Francophone Meetings Transport Mobility***, June 2 to 4, 2021, Marne-la-Vallée, France
* **Octobre 2023**, Annual seminar of «La Chaire Mobilité territoriale » : “*Mobility behaviors: between permanence and renewal”*, Nogent sur Marne, France
* **November 2023**, ***THNS2023 forum*** (The 16th International Symposium on Sustainable Development of Urban Transport Systems) co-organized by Tongji and ENPC, Online
* **January 2025, *TRB annual meeting***, presentation entitled “*Commuting Patterns and Emissions in Paris-Île-de-France: A Comparative Study of Interregional and Intraregional Travel*”, Washington D.C., USA
* **January 2025,** *Diversity of territories and flows* - ***ATEC ITS Congress***, Paris, France

# Skills

**Software**: QGIS, VISUM, TransCAD, Office, Stata etc.

**Programming**: Python, C++

**Language**: English(IELTS 7, GRE 320+3.5), French(TEF B2), Spanish(B1)

# Key Awards

* 3rd place, **2013** National Physics Olympiad, Nanchang China
* First Place, **2015** National Chinese-English Translation Competition, Wuhan China
* “Most popular team”, **2017** CVTE Campus Marketing Elite Challenge, Guangzhou China
* “Best Research Gold Award”, **2023** THNS Forum on “Resilient Transport for Livable City”

# Hobbies

* Sport: Basketball, hiking, ski, mountain biking etc.
* Travel: 30+ countries in Europe, USA, Ecuador, Morocco, Turkey
* Reading: History, Folklore, Classic Chinese Novels, biography of great men etc.